

Historic, Archive Document

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McCURDY ROAD TIMBER BRIDGE, Richland County, Ohio



Type: Stress-laminated sawn lumber

County: Richland

Owner: Richland County

Built in: June, 1995

Fabricator: Decker, Inc.

Engineer: Richland County Engineer

Spans over: Unnamed creek

Bridge length: 4.9 meters (16'-0")

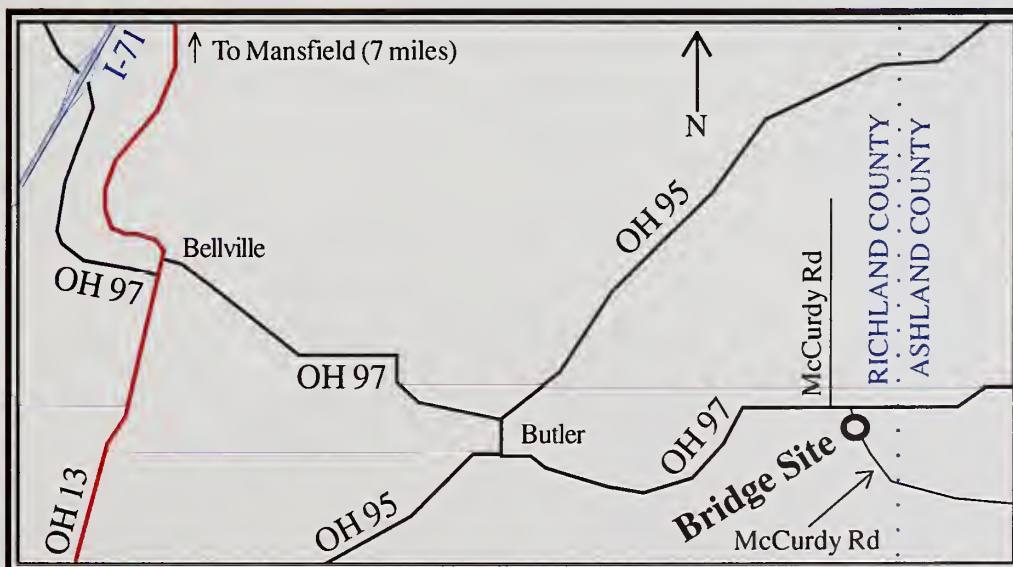
Roadway width: 7.3 meters (24'-0")

U.S.D.A., NAL

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Cataloging Prep

Directions: From Butler travel east on OH 97 approximately 4 miles to the intersection of OH 97 and McCurdy Road. Turn right onto McCurdy Road and the bridge site is .1 miles from the intersection.



**GEOMETRY**

Number of Spans: 2
 Out-to-out length: 4.9 meters (16'-0")
 Center-of-bearing length: 4.6 meters (15'-0")
 Skew: 0
 Number of lanes: 2
 Out-to-out width: 7.9 meters (26'-0")
 Curb-to-curb width: 7.3 meters (24'-0")
 Superstructure square footage: 416 sq. ft.

Design load: AASHTO HS-20
 Averaged daily traffic: 279 (1996)
 Design by: Richland County Engineer
 Abutment material: Wood

Total wood quantity: 10,138 bf
 Total wood cost: \$27,677
 Total project cost: \$61,809
 Total superstructure cost: \$32,500
 Total superstructure cost /sq. ft.: \$78.00

MATERIAL**DECK**

Material: Wood
 Grade: Structural No. 2
 Species: Southern pine
 Sizes used: 50x250 mm (2"x10")
 Quantity: 3,360 bf
 Drying method: Kiln
 Preservative treatment: ACQ
 Retention: 0.6 pcf

BEAMS/STRINGERS (none)**GUIDERAIL POSTS**

Material: Wood
 Grade: Structural No. 2
 Species: Southern pine
 Quantity: 6
 Drying method: Kiln
 Preservative treatment: ACQ
 Retention: 0.6 pcf

GUIDERAIL CURB

Material: Wood
 Grade: Structural No. 2
 Species: Southern pine
 Size: 150x300 mm (6"x12")
 Quantity: 32 lineal feet
 Preservative Treatment: ACQ

GUIDERAIL

Material: Steel (type-V) deep beam
 Species: Southern pine (backup)
 Quantity: 32 lineal feet on structure,
 96 lineal feet off structure
 Preservative treatment: Galvanized

STRESSING STEEL

Grade: A-108
 Manufacturer: Dwydag Systems
 Bar Diameter: 25mm (1")
 Coating: Galvanized
 Quantity: 6
 Bearing plate size: 200x200mm (8"x8")

LOCAL IMPACT: McCurdy Road Bridge Project will allow access to all legal vehicles to the south east corner of Richland County. The project restores full capacity to McCurdy Road including agricultural vehicles, fire and safety equipment, school buses and normal commerce vehicles. The bridge also permits access to the Mohican Recreation Area by large RV type vehicles.

BRIDGE PERFORMANCE: The McCurdy Road Bridge replaces a structurally deficient and functionally obsolete concrete bridge which restricted traffic to the general area by severe load limitations. The construction was performed by Force Account using the personnel and equipment of the Richland County Highway Department. Project Management was performed by Gregory Bush, Richland County Bridge Supervisor and General Supervision was by Darryl Wittmer, Richland County Highway Superintendent.

FABRICATION AND ERECTION: Bridge materials were supplied and treated by Decker, Inc. Elmira, NY and McArther Lumber Company, McArther, Ohio. Fabrication was done in the field by the Richland County Highway Department

FUNDING SOURCES: USDA Forest Service: \$24,515; Balance of funding from other sources.

LOCAL CONTACT: Charles A. Hill, P.E., P.S./Chief Deputy Engineer
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Information provided by Richland County Engineer

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Northeastern Area
 State and Private Forestry

The National Wood In
 Transportation Program

